Informational Reports (IRs) are an on-going series of scientific and technical publications produced by MSHA. **IRs are free of charge.** Use the order blank in the back of this catalog to request IRs. Please order by IR number and title.

Analysis of Noise Reduction With Earmuff Hearing Protectors Under Field Conditions— Coal and Metal/Nonmetal

Reviews 540 field tests comparing A-weighted noise levels measured inside and outside a variety of earmuff hearing protectors. The report concludes that the earmuffs effectiveness in reducing noise frequently falls far short of the manufacturer's NRR (noise reduction rating).

MSHA 1994

42 pp

Cat No: IR 1221

Calibration and Maintenance Procedures for Coal Mine Respirable Dust Samplers (C)

Describes the standard procedures used by MSHA for calibration of currently approved personal samplers and associated equipment and for maintenance of this equipment. Supersedes IR 1121.

MSHA 1996

19 pp

Cat No: IR 1240

Comparison of Infrared Absorbance for Standard Samples Prepared From Sieved and Nonsieved Quartz Reference Materials

MSHA analyzes respirable coal mine dust samples for quartz content as part of their program to enforce environmental dust levels as mandated by the 1977 Act. A quartz reference material is necessary to prepare calibration curves for the quantitative measurement of the mineral. This report summarizes results of a study conducted to determine if the calibration of x-ray diffraction instrumentation was significantly different after particles larger than 10 micrometers in size were removed from the reference material.

MSHA 1994

11 pp

Cat No: IR 1223



Comparison of Noise Exposure Measurements Conducted With Sound

Level Meters and Noise Dosimeters Under Field Conditions (C/MNM) Makes absolute and relative comparisons between the measuring positions where noise dosinmeters and sound level meters are used in assessing noise exposures,

MSHA 1995

32 pp

Cat No: IR 1230



Dust Sampling and Laboratory Testing Procedures After Underground Coal Mine Explosions (C)

Summarizes the methods for collecting samples of the coal and remaining dust taken after an underground coal mine explosion, and discusses the information obtained by analysis of each sample.

MSHA 1996

14 pp

Cat No: IR 1239

Effect of Threshold on Noise Dosimeter Measurements and Interpretation of Their Results, The

This paper discusses the various functions of the noise dosimeter, and why data collected with instruments that function at one set threshold level may differ from that collected with an instrument that uses a different, or no, threshold level. Recommendations are made to provide assistance in selecting the threshold level of the dosimeter in order t-o achieve the desired objective of the noise dose measurement.

MSHA 1994

16 pp

Evaluation of Gases From Mine Explosions by Elemental Balancing, The

Introduces a new index, called the (H/C) Index, used in investigations of fire and explosions to determine fuel composition.

MSHA 1996

31 pp

Cat No: IR 1231

Evaluation of Muff Type Hearing Protectors as Used in the Mining Industry- Coal and Metal/Nonmetal

This report summarizes result-s of a study conducted to evaluate muff type hearing protector devices (HPDs) worn by miners working in a mining environment. The study concludes that field performance of muff type HPDs is significantly less than that predicted by the Environmental Protection Agency Noise Reduction Rating.

MSHA 1994

21 pp

Cat No: IR 1222

Field Evaluations of Hearing Protection Devices at Surface Mining Environments— Coal and Metal/Nonmetal

This paper summarizes the results of a study conducted to evaluate the effectiveness of earmuff type hearing protection devices and their predictability when they were being worn by miners performing normal work duties.

MSHA 1994

31 pp

Cat No: IR 1213

Injury Experience in Coal Mining, 1989 (C) Reviews in detail the occupational injury and illness experience of coal mining in the United States for 1989, Summary reference tabulations

are included at the end of the report. MSHA 1990

404 pp

Cat. No: IR 1196

Injury Experience in Coal Mining, 1990 (C) Reviews in detail the occupational injury and

illness experience of coal mining in the United States for 1990. Summary reference tabulations are included at the end of the report,

MSHA 1991

404 pp

Cat. No: IR 1205

Injury Experience in Coal Mining, 1991

Reviews in detail the occupational injury and illness experience of coal mining in the United States for 1991. Summary reference tabulations are included at the end of the 'report.

MSHA 1992

406 pp

Cat No: IR 1207

Injury Experience in Coal Mining, 1992

Reviews in detail the occupational injury and illness experience of coal mining in the United States for 1992, Summary reference tabulations are included at the end of the report.

MSHA 1994

399 pp

Cat No: IR 1215

Injury Experience in Coal Mining, 1993 Reviews in detail the occupational injury and illness experience of coal mining in the United States for 1993. Summary reference tabulations are included at the end of the report.

MSHA 1995

406 pp

Cat No: IR 1225

NEW Linjury Experience in Coal Mining, 1994 Reviews in detail the occupational injury and illness experience of coal mining in the United States for 1994. Summary reference tabulations are included at the end of the report.

MSHA 1996

413 pp

Injury Experience in Coal Mining, 1995

Reviews in detail the occupational injury and illness experience of coal mining in the United States for 1995. Summary reference tabulations are included at the end of the report.

MSHA 1997

397 pp

Cat No: IR 1242

Injury Experience in Metallic Mineral Mining, 1989

Reviews the occupational injury and illness experience of metallic mineral mining in the United States for 1989. Summary reference tabulations are included at the end of the report.

MSHA 1990

295 pp

Cat No: IR 1197

Injury Experience in Metallic Mineral Mining, 1990

Reviews the occupational injury and illness experience of metallic mineral mining in the United States for 1990. Summary reference tabulations are included at the end of the report.

MSHA 1991

299 pp

Cat No: IR 1201

Injury Experience in Metallic Mineral Mining, 1991

Reviews the occupational injury and illness experience of metallic mineral mining in the United States for 1991. Summary reference tabulations are included at the end of the report,

MSHA 1993

290 pp

Cat No: IR 1208

Injury Experience in Metallic Mineral Mining, 1992

Reviews the occupational injury and illness experience of metallic mineral mining in the United States for 1992. Summary reference tabulations are included at the end of the report.

MSHA 1994

273 pp

Cat No: IR 1218

Injury Experience in Metallic Mineral Mining, 1993

Reviews the occupational injury and illness experience of metallic mineral mining in the United States for 1993. Summary reference tabulations are included at the end of the report.

MSHA 1995

276 pp

Cat No: IR 1226



Injury Experience in Metallic Mineral **Mining**, 1994

Reviews the occupational injury and illness experience of metallic mineral mining in the United States for 1994, Summary reference tabulations are included at the end of the report.

MSHA 1996

290 pp

Cat No: IR 1233

NEW Injury Experience in Metallic Mineral **Mining**, 1995

Reviews the occupational injury and illness experience of metallic mineral mining in the United States for 1995. Summary reference tabulations are included at the end of the report.

MSHA 1997

286 pp

Cat No: IR 1243

Injury Experience in Nonmetallic Mineral Mining (Except Stone and Coal), 1989 (MNM)

Reviews the occupational injury and illness experience of nonmetallic mineral mining (except stone and coal) in the United States for 1989. Summary reference tabulations are included at the end of the report.

MSHA 1990

321 pp

Cat No: IR 1198

Injury Experience in Nonmetallic Mineral Mining (Except Stone and Coal), 1990 (MNM)

Reviews the occupational injury and illness experience of nonmetallic mineral mining (except stone and coal) in the United States for 1990. Summary reference tabulations are included at the end of the report.

MSHA 1991

324 pp

Injury Experience in Nonmetallic Mineral Mining (Except Stone and Coal), 1991

Reviews in detail the occupational injury and illness experience of nonmetallic mineral mining (except stone and coal) in the United States for 1991, Data are summarized by work location, accident classification, part of body injured, nature of injury, occupation, and principal type of mineral.

MSHA 1993

312 pp

Cat No: IR 1209

Injury Experience in Nonmetallic Mineral Mining (Except Stone and Coal), 1992

Reviews in detail the occupational injury and illness experience of nonmetallic mineral mining (except_ stone and coal) in the United States for 1992. Data are summarized by work location, accident classification, part of body injured, nature of injury, occupation and principal type of mineral.

MSHA 1994

299 pp

Cat 1Nto: IR 1219

Injury Experience in Nonmetallic Mineral Mining (Except Stone and Coal), 1993

Reviews the occupational injury and illness experience of nonmetallic mineral mining (except stone and coal) in the United States for 1993. Summary reference tabulations are. included at the end of the report.

MSHA 1995

296 pp

Cat No: IR 1227

Injury Experience in Nonmetallic Mineral Mining (Except Stone and Coal), 1994

Reviews the occupational injury and illness experience of nonmetallic mineral mining (except stone and coal) in the United States for 1994, Summary reference tabulations are included at the end of the report.

MSHA 1996

297 PP

Cat No: IR 1234

NEW :

Injury Experience in Nonmetallic Mineral Mining (Except Stone and Coal), 1995

Reviews the occupational injury and illness experience of nonmetallic mineral mining (except stone and coal) in the United States for 1995. Summary reference tabulations are included at the end of the report.

MSHA 1997

305 pp

Cat No: IR 1244

Injury Experience in Sand and Gravel Mining, 1989 (MNM)

Reviews in detail the occupational injury and illness experience of sand and gravel mining in the United States for 1989, Summary reference tabulations are included at the end of the report.

MSHA 1990

107 pp

Cat No: IR 1199

Injury Experience in Sand and Gravel Mining, 1990 (MNM)

Reviews in detail the occupational injury and illness experience of sand and gravel mining in the United States for 1990. Summary reference tabulations are included at the end of the report.

MSHA 1991

115 pp

Cat No: IR 1204

Injury Experience in Sand and Gravel Mining, 1991

Reviews in detail the occupational injury and illness experience of sand and gravel mining in the United States for 1991.

MSHA 1993

114 pp

Cat No: IR 1211

Injury Experience in Sand and Gravel Mining, 1992

Reviews in detail the occupational injury and illness experience of sand and gravel mining in the United States for 1992.

MSHA 1994

107 pp



Injury Experience in Sand and Gravel **Mining**, 1993

Reviews in detail the occupational injury and illness experience of sand and gravel mining in the United States for 1993.

MSHA 1995

115 pp

Cat No: IR 1229



Reviews in detail the occupational injury and illness experience of sand and gravel mining in the United States for 1994.

MSHA 1996

112 pp

Cat INto: IR 1235

Injury Experience in Sand and Gravel Mining, 1995

Reviews in de.t; ail the occupational injury and illness experience of sand and gravel mining in the United States in 1995,

MSHA 1997

111 pp

Cat No: IR 1246

Injury Experience in Stone Mining, 1989 (MNM)

Reviews in detail the occupational injury and illness experience of stone-mining in the United States for 1989. Summary reference tabulations are included at the end of this report.

MSHA 1990

512 pp

Cat No: IR 1200

Injury Experience in Stone Mining, 1990 (MNM)

Reviews in detail the occupational injury and illness experience of stone mining in the United States for 1990. Summary reference tabulations are included at the end of this report.

MSHA 1991

510 pp

Cat No: IR 1203

Injury Experience in Stone Mining, 1991

Reviews in detail the occupational injury and illness experience of stone mining in the United States for 1991. Summary reference tabulations are included at the end of both the operator and contractor sections of this report.

> **MSHA** 1993

516 pp

Cat No: IR 1210

Injury Experience in Stone Mining, 1992

Reviews detail the occupational injury and illness experience of stone mining in the United States for 1992, Summary reference tabulations are included at the end of both the operator and contractor sections of this report.

MSHA 1994

507 pp

Cat No: IR 1216

▼NEW Injury Experience in Stone Mining, 1993

Reviews in detail the occupational injury and illness experience of stone mining in the United States for 1993. Summary reference tabulations are included at the end of both the operator and contractor sections of this report.

MSHA 1995

507 pp

Cat No: IR 1228

Injury Experience in Stone Mining, 1994

Reviews in detail the occupational injury and illness experience of stone mining in the United States for 1994. Summary reference tabulations are included at the end of both the operator and contractor sections of this report.

MSHA 1996

510 pp

Cat No: 1236

Injury Experience in Stone Mining, 1995

Reviews in detail the occupational injury and illness experience of stone mining in the United States for 1995. Summary reference tabulations are included at the end of both the operator and contractor sections of this report.

MSHA 1997

519 pp

Cat No: 1245

Installation of MSHA-Accepted Ground Wire Monitors, Guidelines for the (C)

Wire Monitors, Guidelines for the (C) contains manufacturers' installation diagrams for underground impedance monitors, underground continuity monitors, and surface monitors.

MSHA 1996

128 pp

Cat No: IR 1241

Magnitude of the Noise-Induced Hearing Loss Problem in the Mining Industries, The

Prolonged exposure to hazardous noise levels results in a person developing noise-induced hearing loss (NIHL). The analysis in this report demonstrates conclusively that NIHL is a major health problem affecting the mining industries.

MSHA 1994

18 pp

Cat No: IR 1220

Material Instability Hazards in Mine-Processing Operations

Many accidents occur in the mining industry because of instability of material during handling and processing operations. This report provides information on safe working procedures at stockpiles and surge piles.

MSHA 1994

10 pp

Cat No. IR 1212

Noise Exposure in U.S. Coal Mines

This paper presents the mean and standard deviation of over 60,000 full-shift noise dose measurements for various underground and surface coal mining occupations. The report also compares and contrasts the levels with historical noise exposure measurements for selected coal mining occupations that were published in the 1970's.

MSHA 1994

46 pp

Cat No: IR 1214

Presentations From the 1992 Coal Mining Impoundment Informational Meeting

This report contains 15 presentations about issues involved in design and construction of dams associated with coal mining.

MSHA 1993

175 pp

Cat 1No: IR 1206

Trouble-Shooting Guide for Roof Support Systems, A

Provides a logical sequence to resolving the most common problems encountered with roof supports.

MSHA 1196

104 pp

OTHER SOURCES

OTHER SOURCES OF TRAINING MATERIALS

In addition to the Academy, several other sources produce training materials, These include the National Institute for Occupational Safety and Health (former Bureau of Mines publications) and several States that participate in MSHA'S State Grants Program, In this section we have given the names, addresses, and phone numbers (where available) of these organizations,

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State of North Carolina:

Mr. Howard Megredy Director, Mine and Quarry Division North Carolina Department of Labor 4 West Edenton Street Raleigh, NC 27601-1092 Telephone: 919/733-7428



National Institute for Occupational Safety and Health (NIOSH)

> Pittsburgh Reseach Center P.O. Box 18070 Cochrans Mill Road Pittsburgh, PA 15236 Phone: 412/892-6400

Fax: 412/892-6877

The following codes are used in the INDEX.

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CI	Course of Instruction	MES Mine Emergency Simulation	Instruction Books
IG	Instructional Guide	Exercises	SM Safety Manuals
IR	Informational Reports	OT Other Materials	VC Videotapes

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